Title (en)
  DEVICE FOR DISPENSING FLUID

Title (de)
  SPENDERVORRICHTUNG FÜR FLÜSSIGKEIT

Title (fr)
  DISPOSITIF DE DISTRIBUTION DE FLUIDE

Publication
  EP 2209558 B1 20150114 (EN)

Application
  EP 08845765 A 20081030

Priority
  • EP 2008064727 W 20081030
  • US 98189507 A 20071101

Abstract (en)
  [origin: WO2009056596A1] A pump (14) for dispensing fluid that includes a pump head (30) having a mixing chamber (134) and a porous member (54). The pump head includes a tube (50) and diaphragm (34). The pump includes a cap (22) having a body (42) defining a cavity (101) that receives the tube. The cap is connected to the diaphragm to define an air chamber (106) communicating with the mixing chamber. The pump includes a spring system (46) received in the tube and cavity. The tube, cavity, and spring system define a liquid chamber (122) that communicates with the mixing chamber. The spring system includes a spring (62) positioned to be compressed such that liquid is urged from the liquid chamber (122) to the mixing chamber and the diaphragm is configured to be compressed such that air is drawn from the air chamber to the mixing chamber. The liquid and air commingle into a mixture that is pushed through the porous member to form a product.

IPC 8 full level
  B05B 11/00 (2006.01); **B67D 7/76** (2010.01); **B05B 7/00** (2006.01)

CPC (source: EP US)
  B05B 11/1087 (2023.01 - EP US); B05B 7/0037 (2013.01 - EP US); B05B 7/0043 (2013.01 - EP US); B05B 11/1001 (2023.01 - EP US); B05B 11/106 (2023.01 - EP US); B05B 11/1077 (2023.01 - EP)

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DOCDB simple family (publication)
  WO 2009056596 A1 20090507; AU 2008320871 A1 20090507; AU 2008320871 B2 20120906; BR PI0818277 A2 20170509; BR PI0818277 A8 20171010; CA 2704367 A1 20090507; CA 2704367 C 20150210; DK 2209558 T3 20150420; EP 2209558 A1 20100728; EP 2209558 B1 20150114; ES 2533725 T3 20150414; HK 1143776 A1 20110114; HR P20150361 T1 20150508; JP 2011502744 A 20110127; JP 5584129 B2 20140903; NZ 585195 A 20120928; PL 2209558 T3 20160129; PT 2209558 E 20150506; SI 2209558 T1 20150529; US 2009120966 A1 20090514; US 8297475 B2 20121030

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